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but contrasted with (a) *Giraffa*, by its pair of supraorbital or frontal horn-bosses, which in *Giraffa* are parietal instead of frontal, and with (b) *Helladotherium*, in which there are no paired horn-bosses. It is closely related to *Samotherium*, especially in the presence of these suprafrontal ossicups (conical bony horns). Dr. Forsyth Major, of the British Museum, is making an examination of these rudimentary or possibly vestigial horns in regard to their bearing on the whole question of the origin of horns.

H. F. O.

FIELD WORK IN VERTEBRATE PALEONTOLOGY AT THE CARNEGIE MUSEUM FOR 1902.

THROUGH the continued generosity of Mr. Carnegie, the founder of this institution, the Department of Vertebrate Paleontology has been enabled to continue the work of exploration in the fossil fields of the West, which was undertaken some three years ago and the prosecution of which has been attended throughout with almost phenomenal success.

Early in the season the present writer, under whose direction the work has been carried on, planned and organized four parties for exploration. One of these, under Mr. O. A. Peterson, was sent first into the White River Tertiaries of Sioux County, Neb., and later into the adjacent Laramie deposits of Converse County, Wy. In the White River beds the party under Mr. Peterson secured, among other material, five Titanotherium skulls, a considerable portion of the skeleton of *Elotherium*, and material which it is thought will be sufficient to mount the skeletons of *Hyracodon* and *Hoplophoneus*. In the Laramie portions of the skulls and skeletons of both *Triceratops* and *Dryptosaurus* were secured.

Mr. C. W. Gilmore was returned to southern Wyoming to continue the work commenced in that region in the season of 1899 by Dr. J. L. Wortman, and since carried on with such splendid results by Mr. O. A. Peterson in 1900 and Mr. Gilmore in 1901. The bone quarries on Sheep Creek were worked until about the middle of the season, when they were abandoned and a new quarry opened

up in the Freeze Out Mountains. From this, valuable collections, especially of the remains of *Morosaurus* and some of the carnivorous forms of Jurassic Dinosaurs, were recovered.

Mr. W. H. Utterback was sent to explore the Mesozoic deposits about the slopes of the Big Horn Mountains in Wyoming. He was successful in discovering, in the Jurassic deposits on Powder River, the skeleton of a Sauropod dinosaur in which the bones are in an excellent state of preservation and which, moreover, gives promise of being the most perfect skeleton of any member of the Sauropoda yet discovered.

Mr. Earl Douglass undertook an exploration of the various Tertiary horizons and localities recently discovered by him in Montana and reports most gratifying results, having secured more than fifty skulls of Tertiary mammals, many of them associated with considerable portions of the skeleton. Mr. Douglass was also fortunate in discovering in one locality, in beds belonging to the White River formation, a horizon where fossil fishes were both abundant and well preserved.

J. B. HATCHER,
Curator of Vertebrate Paleontology, Carnegie Museum.

INAUGURATION OF CHANCELLOR FRANK STRONG AT THE UNIVERSITY OF KANSAS.

FOR the Inauguration Exercises of the new Chancellor at the University of Kansas, three days, October 16, 17 and 18, were set apart. This was a notable event in the history of education in the middle west. On Thursday, October 16, occurred the dedication of the chemistry building, recently completed. The dedicatory exercises were under the auspices of the Kansas City Section of the American Chemical Society. The following papers were read and discussed: 'The New Reaction of the Formamidines,' by Professor F. B. Dains of Washburn College, and 'Ionic Velocities in Liquid Ammonia,' by Professor E. C. Franklin, of the University. In the evening a large audience assembled to listen to the formal dedicatory address by Dr. Harvey W. Wiley, Chief of the Bureau of Chemistry, De-

partment of Agriculture, his subject being 'The Rôle of Chemistry in University Education.'

On Friday the inauguration exercises proper took place in the hall of the Natural History Museum which is nearly completed. There were distinguished visitors, faculty, students and alumni, to the number of over 1500 in the procession. The inauguration exercises consisted of an address on behalf of the state by Gov. Wm. E. Stanley; an address which was largely reminiscent by Ex-Chancellor F. H. Snow; an address on 'The Purposes of the American University,' by President Arthur T. Hadley, of Yale University. Hon. Scott Hopkins, a member of the Board of Regents, formally handed over the University to the new Chancellor, Dr. Frank Strong, who made the Inaugural Address on 'The Relation of Educational Development to the Problems before the University of Kansas.' He was followed by Professor W. H. Carruth on behalf of the Faculty of the University; Chas. L. Faust, of the Law School, on behalf of the students; A. C. Scott, President of the Oklahoma Agricultural and Mechanical College, for the alumni; L. D. Whittemore, of the Topeka High School, for the Kansas High Schools; Dr. L. H. Murlin, of Baker University, for the Colleges of Kansas. An audience of nearly 3000 was present at these exercises. In the evening, the same auditorium, which had been elaborately decorated by different classes and organizations of the university and brilliantly lighted with electric lights, was used for the inauguration luncheon, for which over 1100 covers were provided. With Chancellor Strong in the capacity of toast-master, the audience listened to short after-dinner speeches, by Dean L. B. Briggs, of Harvard University; President Benj. I. Wheeler, of the University of California; President W. F. Slocum, of Colorado College; President R. H. Jesse, of the University of Missouri; Hon. W. Y. Morgan, State Printer of Kansas; Professor C. E. Turner, representing the University of Wisconsin; Dean A. F. Burton, representing the Massachusetts Institute of Technology; Hon. Gardner Lathrop, of Kansas City; Rev. W. J. Dalton, of Kansas City; Professor

Albion W. Small, representing the University of Chicago; Professor Chas. DeGarmo, representing Cornell University; Dr. C. E. Bessey, of the University of Nebraska; Dean David Kinley, of the University of Illinois; President P. B. Nichols, of Colorado Agricultural College; Chancellor W. S. Chaplin, representing Washington University, St. Louis; Professor H. W. Richmond, of Wm. Jewell College, Missouri; Hon. Frank Nelson, State Superintendent of Public Instruction; President D. R. Boyd, University of Oklahoma; President Nichols, of the University of Colorado; Professor J. N. Wilkinson, of Kansas State Normal School; Professors F. W. Blackmar, E. Haworth and A. M. Wilcox, of the University of Kansas; Ewing Herbert, of Hiawatha; and Dr. Harvey W. Wiley of Washington, D. C.

Saturday was devoted to athletic sports, consisting of tennis tournaments by representatives of Nebraska, Missouri and Kansas Universities, a golf tournament on the Oread Links; a hare-and-hounds run by the students of Haskell Institute and the University; and finally a foot-ball game on McCook Field. The exercises of this installation mark an epoch in the history of this University, which began its work in 1866 with one building, and now has ten. It also has a faculty of 80 members, and more than 1200 students in attendance, and instruction is given in the Schools of Arts, Engineering, Law, Fine Arts, Pharmacy, Medicine and in the Graduate School.

E. H. S. BAILEY.

THE AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

THE next meeting of the Association will be held in Dunedin, New Zealand, in January, 1904. Dr. L. O. Howard, permanent secretary of the American Association, has received a letter from Mr. George M. Thomson, honorary secretary of the Australasian Association, which reads as follows:

The next meeting of the Australasian Association is to be held in Dunedin in January, 1904, and on behalf of the Local Council I have much pleasure in extending to members of your Association who may be able to afford the time necessary for such a trip a cordial invitation to attend